

Listing of Claims

The following listing of claims replaces all prior versions of the claims in the application.

1. (Currently Amended) A drive-by-wire assembly for a motor vehicle comprising, in combination;

a foot engaging member configured to be engaged by a foot of a user, the foot engaging member configured to remain substantially stationary when engaged by a foot of a user;

a force measuring sensor secured to an exterior surface of the foot engaging member and configured to provide an output signal based on a force applied by a foot of a user to the foot engaging member; and

an electronic control unit connected to the force measuring sensor and configured to receive the output signal and output a control signal.

2. (Original) The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a strain gauge.

3. (Original) The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a load cell.

4. (Original) The drive-by-wire assembly of claim 1, wherein the force measuring sensor is a Hall-effect sensor.

5. (Original) The drive-by-wire assembly of claim 4, wherein the Hall-effect sensor is excited by a spring and magnet assembly.
6. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is a pedal.
7. (Original) The drive-by-wire assembly of claim 6, wherein the pedal comprises an arm having a first end and a second end, and a footpad secured to the first end, the second end being secured to a mounting member.
8. (Original) The drive-by-wire assembly of claim 7, wherein the mounting member is configured to be secured to a front of dash of a vehicle.
9. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is an accelerator pedal.
10. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is a brake pedal.
11. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is a clutch pedal.

12. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is a suspended pedal.

13. (Original) The drive-by-wire assembly of claim 1, wherein the foot engaging member is configured to be secured to a front of dash of a vehicle.

14. (Original) The drive-by-wire assembly of claim 1, further comprising a cover for the foot engaging member.

15. (Original) The drive-by-wire assembly of claim 1, further comprising an electronic control unit configured to receive the output signal from the force measuring sensor.

16. (Original) The drive-by-wire assembly of claim 1, further comprising a cable to connect the force measuring sensor to the electronic control unit.

17. (Currently Amended) A drive-by-wire assembly for a motor vehicle comprising, in combination;

a pedal configured to be engaged by a foot of a user, the pedal configured to be substantially stationary when engaged by a foot of a user;

a force measuring sensor secured to an exterior surface of the pedal and configured to provide an output signal based on a force applied to the pedal by a foot of a user;

an electronic control unit connected to the force measuring sensor and configured to receive the output signal and output a control signal.

18. (Original) The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a strain gauge.

19. (Original) The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a load cell.

20. (Original) The drive-by-wire assembly of claim 17, wherein the force measuring sensor is a Hall-effect sensor.

21. (Original) The drive-by-wire assembly of claim 20, wherein the Hall-effect sensor is excited by a spring and magnet assembly.

22. (Original) The drive-by-wire assembly of claim 17, wherein the pedal is an accelerator pedal.

23. (Original) The drive-by-wire assembly of claim 17, wherein the pedal is a brake pedal.

24. (Original) The drive-by-wire assembly of claim 17, wherein the pedal is a clutch pedal.

25. (New) The drive-by-wire assembly of claim 1, wherein the output signal is transmitted to a throttle assembly.

26. (New) The drive-by-wire assembly of claim 1, wherein the output signal is transmitted to a brake system.

27. (New) A drive-by-wire assembly for a motor vehicle comprising, in combination;

a front of dash of a vehicle;

a pedal mounted to the front of dash and being substantially stationary when engaged by a foot of a user;

a force measuring sensor secured to an exterior surface of the pedal and configured to provide an output signal based on a force applied to the pedal by a foot of a user;

an electronic control unit operably connected to the force measuring sensor and configured to receive the output signal and output a control signal.

28. (New) The drive-by-wire assembly of claim 27, wherein the pedal has a first free end and a second end secured to the front of dash.